

## Amendments to the Claims:

The following listing of claims replaces all prior versions or listings of claims in this application:

1. (previously presented) A method of marking by sublimation and application of decorated film or paper on extruded bars with polygonal cross-sections, with no limit on length, the method comprising the step of:

applying decorated film or paper on extruded bars by sublimation or decorative veneering through a matrix and a die, which are heated and supported by a vibrating base plate.

2. (currently amended) ~~A device for implementing the method according to~~ The method of claim 1, wherein an inside of the die is in the shape of the object to be decorated.

3. (currently amended) ~~The device according to method of claim 2, wherein the device is configured to cool~~ further comprising cooling the extruded bar to be decorated, according to the nature of its material, at the outlet of the ~~device~~ the die by spraying the extruded bar with a cooling liquid.

4. (currently amended) ~~The device according to method of claim 2, wherein the device is configured to carry out a~~ further comprising winding of any decorated film or paper waste in the case of automatic sublimation ~~automatically~~.

5. (currently amended) ~~The device according to method of claim 2~~, wherein the base plate that supports the matrix and the die vibrates by means of generation of ultrasounds or vibration by an electromagnet.

6. (currently amended) The ~~device according to~~ method of claim 2, wherein the die (2) can be built into a cone that shapes a decoration support.

7. (currently amended) The ~~device according to~~ method of claim 6, wherein ~~the device is configured to allow for~~ the die is configured to replace the cone with a simple chamfer at its intake in case in which the shape of the product to be marked is simple.

8. (currently amended) The ~~device according to~~ method of claim 6, wherein intermediate sections of the cone are obtained through the principle of morphing.

9. (currently amended) The ~~device according to~~ method of claim 6, wherein the cone can act as a die by virtue of its outlet shape, thus doing away with the need for mounting a die.

10. (currently amended) The ~~device according to~~ method of claim 2, wherein the ~~device~~ die is configured to, in the case of the product to be marked comprises small irregularities in its shape, allow O-rings to be mounted in a series of gorges inside the die, which ensure that correct contact is maintained between the decoration support and the product to be marked.

11. (new) The method of claim 1, wherein the matrix and the die are heated to about 180°C.